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September 29, 2004

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Re:

U.S. Patent Application No.: 10/718,846

For: USE OF CREATINE OR CREATINE ANALOGS FOR THE TREATMENT

OF DISEASES OF THE NERVOUS SYSTEM

Inventors: Kaddurah-Daouk, Rima et al.

Filed: November 21, 2003

Our Ref. No.: AVZ-001CPUSCN

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

- 1. Information Disclosure Statement:
- PTO Form SB/08: and 2.
- 3. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on:

September 29, 2004

Date

Merideth C. Arnold, Registration No. 52,568

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

Merideth C. Arnold

Registration No. 52,568 Attorney for Applicants



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Kaddurah-Daouk, Rima, et al.

Serial No.: 10/718,846

Filed: November 21, 2003

For: USE OF CREATINE OR CREATINE ANALOGS FOR THE TREATMENT OF DISEASES OF THE NERVOUS

SYSTEM

Attorney Docket No.: AVZ-001CPUSCN

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 **!** |

Examiner: Not Yet Assigned

Group Art Unit: 1639

Certificate of First Class Mailing (37 CFR §1.8(a))

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September 29, 2004

Date of Signature and of Mail Deposit

By:

Merideth C. Arnold

Registration No. 52,568 Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

For the Examiner's convenience in reviewing this continuation application, Applicants submit a consolidated PTO Form SB/08, listing all references cited during the prosecution of the parent application. The present application is a Continuation-in-Part of U.S. Serial No. 08/853,174, filed May 7, 1997 (Atty. Docket No. ATV-001CPUS). All references listed on the enclosed PTO Form SB/08 have been previously cited by or submitted to the Office in the prior application, and, in accordance with 37 CFR §1.98(d), copies of the references are not enclosed but will be provided upon request.

Serial Number: 10/718,846 Page -2- Group Art Unit: 1639

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

Respectfully submitted, LAHIVE & COCKFIELD, LLP

Registration No. 52,568

Attorney for Applicants

28 State Street Boston, MA 02109 (617) 227-7400

Date: September 29, 2004

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Enclosures



PTO/SB/08a/b (08-03)
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Sub	stitute for form 1449A/B/PT	0		Complete if Known		
		_		Application Number	10/718,846	
II.	NFORMATION	I DI	SCLOSURE	Filing Date	November 21, 2003	
S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	Kaddurah-Daouk, Rima	
				Art Unit	1639	
	(Use as many she	eets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	1	of	8	Attorney Docket Number	AVZ-001CPUSCN	

	U.S. PATENT DOCUMENTS								
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where				
Initials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear				
	A1	5,091,404	02-25-1992	Elgebaly, S.A.					
	A2	5,321,030	06-14-1994	Kaddurah-Daouk, R., et al.					
	A3	5,324,731	06-28-1994	Kaddurah-Daouk, R., et al.					
	A4	5,492,930	02-20-1996	Coffin, V.L.					
	A5	5,741,661	04-21-1998	Goldin, S.M., et al.					
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	A7	WO 90/09192	08-23-1990	Massachusetts Institute of Technology (US)		
	A8	WO 92/08456	05-29-1992	Amira Inc. (US)		
	A9	WO 94/16687	08-04-1994	University of Pennsylvania (US)		
	A10	WO 94/17794 A1	08-18-1994	Jennings, S.A. (GB)		

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	A11	Annesley, T., et al., "Cyclocreatine Phosphate as a Substitute for Creatine Phosphate in Vertebrate Tissue. Energetic Considerations," <i>Biochem. Biophys. Res. Commun.</i> , 1977; 74:185-90.						
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	A13	Beal, M., "Aging, Energy, and Oxidative Stress in Neurodegenerative Diseases," <i>Ann. Neurol.</i> , 1995; 38:357-66.						

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	B1	Beal, M., "Does Impairment of Energy Metabolism Result in Excitotoxic Neuronal Death in Neurodegenerative Illnesses?" <i>Ann. Neurol.</i> , 1992; 31:119-30.						
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-	B8	Cadoux-Hudson, T., et al., "Imaging of Human Brain Creatine Kinase Activity in Vivo," FASEB J., 1989; 3:2660-6.						

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	E2	Lillie, J., et al., "Cyclocreatine (1-Carboxymethyl-2-iminoimidazolidine) Inhibits Growth of a Broad Spectrum of Cancer Cells Derived from Solid Tumors," Cancer Res., 1993; 53:3172-8.	
	E3	Lim, L., et al., "Neurone-Specific Enolase and Creatine Phosphokinase are Protein Components of Rat Brain Synaptic Plasma Membranes," J. Neurochem., 1983; 41:1177-82.	_
	E4	LoPresti, P., et al., "Direct Determination of Creatine Kinase Equilibrium Constants with Creatine or Cyclocreatine as Substrate," Biochem. Biophys. Acta., 1989; 998:317-20.	
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Examiner Initials*	No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶		

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	F1	Molloy, G., et al., "Rat Brain Creatine Kinase Messenger RNA Levels are High in Primary Cultures of Brain Astrocytes and Oligodendrocytes and Low in Neurons," J. Neurochem., 1992; 59:1925-32.	
	F2	National Library of Medicine: IGM Metathesaurus Information Screen - Nervous System Diseases definitions and related terms.	
	F3	Newman, E., "Regulation of Potassium Levels by Glial Cells in the Retina," <i>Trends Neuroscience</i> , 1985; 8:156-9.	
	F4	Oblinger, M., et al., "Cytotypic Differences in the Protein Composition of the Axonally Transported Cytoskeleton in Mammalian Neurons," J. Neurol., 1987; 7(2):453-62.	
	F5	Orlovskaia, D.D., et al., "Neuromorphology and Neurochemistry of Senile Dementias in the Light of Studies on Glial Response," Vestn Ross Akad Med Nauk., 1992; 8:34-9.	
	F6	Rees, et al., Chemical Abstracts AN 89:82648, US patent 4,981,774.	
	F7	Reichenbach, A., "Glial K+ Permeability and CNS K+ Clearance by Diffusion and Spatial Buffering," <i>Acad. Sci. New York</i> , 1991; 272-86.	
	F8	Roberts, J., et al., "Higher Homolog and N-Ethyl Analog of Creatine as Synthetic Phosphagen Precursors in Brain, Heart, and Muscle, Repressors of Liver Amidinotransferase, and Substrates for Creatine Catabolic Enzymes," J. Biol. Chem., 1985; 260(25):13502-8.	

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Sub	ostitute for form 1449A/B/PT	0		Complete if Known		
		-		Application Number	10/718,846	
II.	NFORMATION	I DI	SCLOSURE	Filing Date	November 21, 2003	
S	TATEMENT B	3Y /	APPLICANT	First Named Inventor	Kaddurah-Daouk, Rima	
				Art Unit	1639	
	(Use as many sh	eets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	7	of	8	Attorney Docket Number	AVZ-001CPUSCN	

U.S. PATENT DOCUMENTS						
Examiner	Q11-	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	Cite No. ¹	Number-Kind Code ² (if known)	2 444 00 3000	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	

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Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,		
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	G1	Roberts, J., et al., "Synthesis and Accumulation of an Extremely Stable High-Energy Phosphate Compound by Muscle, Heart, and Brain of Animals Fed the Creatine Analog, 1-Carboxyethyl-2-iminoimidazolidine (Homocyclocreatine)," <i>Arch. Biochem. Biophys.</i> , 1983; 220(2):563-71.	
	G2	Rowley, G.L., et al., "On the Specificity of Creatine Kinase. New Glycocyamines and Glycocyamine Analogs Related to Creatine," <i>Journal of the American Chemical Society</i> , 1971; 93:5542-51.	
	G3	Rudinger, "Peptide Hormones," 1976 (J. Parsons Ed.); 1-6.	
	G4	Schiffmann, R., et al., "Childhood Ataxia with Diffuse Central Nervous System Hypomyelination," Ann. Neurol., 1994; 35:331-40.	
	G5	Schulthesis, et al., "Effects of Creatine on Synthesis and Release of Gamma-[3H] Aminobutyric Acid," Journal of Neurochemistry, 54(6):1858-63.	
	G6	Schultz, J., et al., "Blockade of Neuronal Nitric Oxide Synthase Protects Against Excitotoxicity in vivo," J. Neurosci., 1995; 15(12):8419-29.	
	G7	Schultz, J., et al., "Inhibition of Neuronal Nitric Oxide Synthase by 7-Nitroindazole Protects Against MPTP-Induced Neurotoxicity in Mice," <i>J. Neurochem.</i> , 1995; 64:936-9.	

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	H1	Stadhouders, A., et al., "Mitochondrial Creatine Kinase: A Major Constituent of Pathological Inclusions Seen in Mitochondrial Myopathies," PNAS, 1994; 91(11):5089-93.				
	H2	Wang, T., "Synthesis and Properties of <i>N</i> -Acetimidoyl Derivatives of Glycine and Sarcosine," <i>JOC</i> , 1974; 39(24):3591-4.				

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